

U.S. DEPARTMENT OF TRANSPORTATION

TCDS NUMBER: P21BO
REVISION: 1

FEDERAL AVIATION ADMINISTRATION

AVIA PROPELLER LTD.

TYPE CERTIFICATE DATA SHEET P21BO

MODEL/S: AVIA V508, V508B, V508D,
V508D-2, V508D-AG, V508A, V508Z,
V508E-AG

APRIL 5, 2002

This Data Sheet, which is part of Type Certificate No. P21BO, prescribes conditions and limitations under which the product meets the airworthiness requirements of the Federal Aviation Regulations.

TYPE CERTIFICATE
HOLDER

AVIA PROPELLER LTD.
Beranových 666
Praha 9 – Letnany
199 00
Czech Republic

TYPE

Constant speed; hydraulic; variable pitch tractor

ENGINE SHAFT

Flanged: (4.8" 107.95) bolt circle

HUB MATERIAL
BLADE MATERIAL

Steel (forged)
Aluminum Alloy (Duralumin)

NUMBER OF BLADES

3

DESIGN SERIES

AVIA V500, V508B, V508D, V508D-2, V508D-AG, V508Z, V508E, V508E-AG

HUB	BLADE NOTE 2	MAXIMUM CONTINUOUS		<TAKE OFF>		NOMINAL DIAMETER inches/cm	APPROXIMATE WEIGHT lbs./kg. See NOTE 8
		HP KW	/ RPM	HP KW	/ RPM		
See NOTE 1	066-1000	750.4	2080	750.4	2080	90.5 in.	149.6 lbs. – 158 lbs.
	070-1000	560		560		230.0 cm.	
	059-1100						
See NOTE 1	076-1000	750.4	2080	750.4	2080	90.5 in.	146.3 lbs. – 151 lbs.
	077-1000	560		560		230.0 cm.	65.3 kg – 67.5
	076-1100						
See NOTE 1	076-1000.1	750.4	2080	750.4	2080	84.0 in.	142.9 lbs. – 158.4 lbs.
	077-1000.1	560		560		213.4 cm.	63.8 kg – 68.0 kg.
	076-1100.1						

CERTIFICATION BASIS:

The U.S. certification basis determined under Section 21.29 of the FAR and Bilateral Airworthiness Agreement between the United States and the Czech Republic is FAR 35, effective February 1, 1965, Amendment: 35-1 to 35-6 inclusive.

TC (IMPORT) NO.TC APPLICATION DATE:TC ISSUED:

June 21, 2000

January 11, 2001, revised April 5, 2002

Page No.	1	2	3	
Rev. No.	1	-	-	

IMPORT REQUIREMENTS:

To be considered eligible for installation on U.S. registered aircraft, each propeller to be exported to the United States shall be accompanied by a certificate of airworthiness for export or certifying statement endorsed by the exporting cognizant civil airworthiness authority which contains the following language:

(1) This propeller conforms to its United States type design (Type Certificate number P21BO and is in a condition for safe operation.

(2) This propeller has been subjected by the manufacturer to a final operational check and is in a proper state of airworthiness.

Reference FAR Section 21.500 which provides for the airworthiness acceptance of aircraft engines or propellers manufactured outside the U.S. for which a U.S. type certificate has been issued.

Additional guidance is contained in FAA Advisory Circular 21-23, Airworthiness Certification of Civil Aircraft, Engines, Propellers and Related Products, Imported into the United States.

NOTES**NOTE 1:****Marking the propeller hubs**

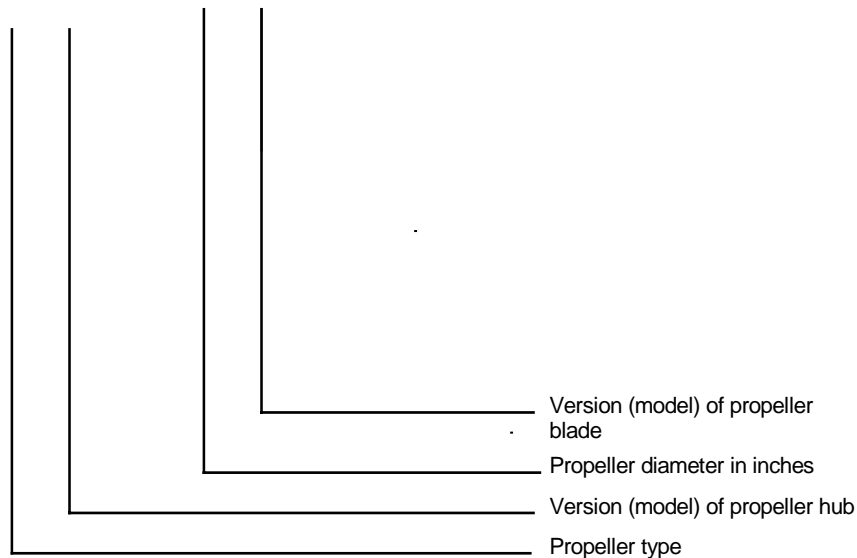
059-2000	propeller V508
065-2000	propeller V508B
066-2000	propeller V508D
074-2000	propeller V508D-2
081-2000	propeller V508D-AG
070-2000	propeller V508Z
076-2000	propeller V508E
077-2000	propeller V508E-AG

NOTE 2:**Marking the propeller blades**

- (a) 059-1100 – propeller blade of right hand rotation (propeller diameter of 2300 mm)
 - (1) 99A (066-1000) – propeller blade with de-icing for version V508, V508B, V508D, V508D-2, V508E
 - (2) 99A (070-1000) – propeller blade without de-icing for version V508Z, V508D, V508D-AG, V508E-AG
- (b) 076-1100 – propeller blade of right hand rotation (propeller diameter of 2300 mm)
 - (1) 99b (076-1000) – propeller blade with de-icing for version V508, V508B, V508D, V508D-2, V508E
 - (2) 99B (077-1000) – propeller blade without de-icing for version V508Z, V508D-AG, V508E-AG
- (c) 076-1100.1 – propeller blade of right hand rotation (propeller diameter of 2134 mm)
 - (1) 84 (076-1100.1) – propeller blade with de-icing for version V508, V508B, V508D, V508D-2, V508E
 - (2) 84 (077-1000.1) – propeller blade without de-icing for version V508Z, V508D-AG, V508E-AG

NOTE 3: Propeller designation
 Propeller designation is created by propeller hub designation and propeller blade designation separated by a slash.

V508 E-AG / -99 - B



NOTE 4:	(a) Feathering:	Not applicable
	(b) Reversing:	Not applicable
NOTE 5:	Right- and left-hand models: The approved model is left-hand (counter-clockwise rotation) tractor when viewed from slip stream.	
NOTE 6:	Interchangeable blades: Not applicable	
NOTE 7:	Accessories - Assemblies Propeller Speed Hydraulic of the VJ5.500A Propeller Regulator LUN 7810.01 System: Pressure Oil Distributor P 7900.01 or LUN 7902 Connecting parts (hoses) for installation AVIA V 500A Propeller	
NOTE 8:	Shank Fairings:	Not applicable
NOTE 9:	Special Limits:	Life limited components and Continued Airworthiness limitations of the AVIA V500A propeller are listed in Section 1 of the AVIA V 500A Operator's, Installation and Maintenance Manual No. 060-8912.7.
NOTE 10:	Special Notes:	Aircraft installations must be approved as part of the aircraft type certificate and demonstrate compliance with the applicable aircraft airworthiness requirements.

.....END.....